

# LJScully

## PRICE SCHEDULE

- Tape Reproducers
- Tape Recorder/Reproducers

### Extended Play Audio Tape Reproducers

(14" Reel Capacity)

## LJ-10

(Unmounted)

Model LJ-10-1 .....	\$4,600
Monaural, Half Track, Bi-Directional, .250 inch Tape	
Model LJ-10-2 .....	\$4,600
Stereo, Two Track .250 inch Tape	
Model LJ-10-4 .....	\$4,850
Stereo, Quarter Track, Bi-Directional, .250 inch Tape	

### Digitally Controlled Analog Audio Tape Recorder/Reproducer

## LJ-12

Model LJ-12-1/1 .....	\$7,500
Monaural, Full Track .250 inch Tape	
Model LJ-12-2/1 .....	\$7,950
Stereo, Two Track .250 inch Tape	
Model LJ-12-4/1 .....	\$7,950
Stereo, Quarter Track .250 inch Tape	
Model LJ-12-2/2 .....	\$9,350
Stereo, Two Track .500 inch Tape	

Effective January 1, 1984    All Prices Subject to Change Without Notice

# LJScully

THE L. J. SCULLY MANUFACTURING CORPORATION  
138 Hurd Avenue, Bridgeport, Connecticut 06604 U.S.A.

(203) 368-2322

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Model LJ-10 Reproducer  
Model LJ-12 Recorder

LJScully

*The Original Scullys*

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## LJScully MODEL LJ-12

Audio Tape Recorder/  
Reproducer



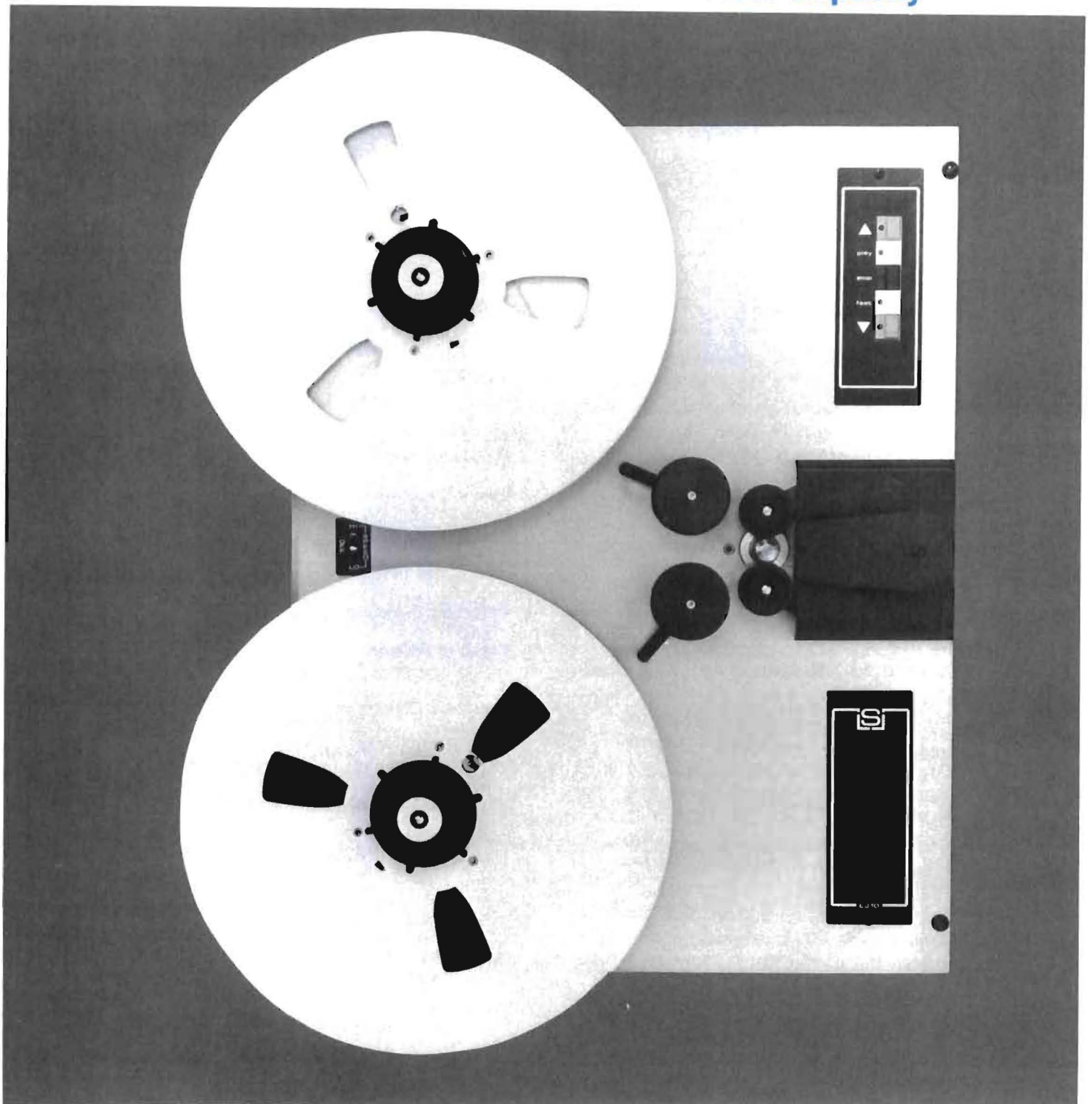
WITH THE LJ-12 RECORDER, L.J. SCULLY OFFERS THE BROADCAST AND RECORDING INDUSTRIES A NEW STANDARD IN ANALOG RECORDING. NOW, AUDIO ENGINEERS HAVE COMPLETE **DIGITAL CONTROL OF AN ANALOG TAPE RECORDER**. AT THE HEART OF THE LJ-12 ARE THREE ADVANCED MICRO-PROCESSORS, EACH COMMUNICATING WITH THE OTHER, ALLOWING UNPRECEDENTED OPERATIONAL STABILITY AND FLEXIBILITY.

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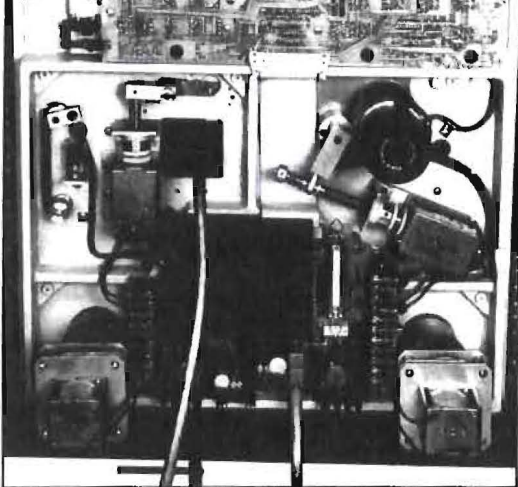


# LJScully MODEL LJ-10

Professional Extended Play Reproducer  
With 10" & 14" Reel Capacity



## LJ-12 Recorder features:

- SIMPLICITY
  - Self diagnostics and plug-in circuitry for ease of service
  - All connectors the finest available, including machined-pin gold plated I.C. sockets and two-piece plug/receptacle type circuit card connectors
  - Complete digital control of the transport functions including the use of lifetime hall-effect switching
  - Use of a rigid, precision ground casting for maintaining the accurate alignment of the tape transport
  - Solid-state, infra-red tape sensor using no moving parts or tape slots that interfere with tape threading
  - Closed loop, dc servo capstan drive for ultimate speed accuracy
  - Bi-directional servo capstan system allows reverse play capability
  - The most accurate vari-speed system ever offered, with precise digital control of capstan speed from 3.00 to 36.00 IPS in .01 IPS increments, with L.E.D. display of IPS or percent of deviation.
  - Digital, real time position locator with LED display
  - Home, replay and dump edit functions for ease of editing
  - Shuttle control for easy cueing
  - Digitally controlled constant tension reel motors for gentle tape handling
  - Slow wind spooling mode for improved tape storage
  - Long life, hot pressed glass bonded ferrite heads are standard
  - Five position head stack allows spare head location in addition to the SMPTE time code head
  - SMPTE compatibility using a center track between the two audio channels with a separate head to eliminate crosstalk problems
  - Advanced, efficient switching power supplies insure cool operation without noisy fans
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- Universal power supply mains input compatible with all world standards
  - Versatile accessory connector allows access to all of the machine's vital internal signals including tallies, push-button inputs, and power supplies for easy interfacing to synchronizers and controllers
  - Accepts both parallel and serial remotes and can be controlled using RS232 data (without the use of "black boxes").
  - Transformerless, high current, true differential output stage can supply +28 DBM and distortion-free unbalancing
  - Quiet punch-in and out with bias delays precisely controlled by the audio control microprocessor
  - Non-volatile memory stores all audio adjustment values and insures dependable storage without batteries
  - Storage of separate values for every audio parameter, for all four tape speeds, for four tape types, with NAB or IEC standards
  - Programmable fast-mute level and automatic high frequency correction prevents monitor speaker damage in lifter defeat mode
  - Built-in monitor amplifier with headphone jack and terminals for console mounted speaker
  - Quiet Operation





## Specifications

Tape Width:	1/4 inch - Mono, 2-track or 1/4 track 1/2 inch - 2 or 4 track	Frequency Response:	30 IPS CCIR 40-24Khz ± 1.5 dB 15 IPS IEC 30-22Khz ± 1.5 dB (Record-reproduce using AMPEX 456 tape)
Tape Speeds:	3.75, 7.5, 15, and 30 IPS		7.5 IPS IEC 30-18Khz ± 1.5 dB 30 IPS AES 30-22Khz ± 1.5 dB 15 IPS NAB 30-22Khz ± 1.5 dB
Variable Speed Range:	3.00 to 36.00 IPS in .01 IPS increments		7.5 IPS NAB 35-18Khz ± 1.5 dB 3.75 IPS NAB 40-12Khz ± 1.5 dB
Tape Tension:	3.75 ounces, ± .5 ounces, at any tape speed from beginning to end of reel. (Measured between capstan and right-hand roller.)	Crosstalk Rejection:	60 dB Minimum at 1Khz (stereo)
		Depth of Erasure:	80 dB or better at 1Khz (Ref. 250nW/M)
Start Time: (To .1% DIN Flutter using 10.5 inch reels)	.40 seconds at 3.75 IPS .50 seconds at 7.5 IPS .60 seconds at 15 IPS .85 seconds at 30 IPS	Harmonic Distortion: (THD at 250 nW/M, 1Khz fundamental)	Less than .5% at 30 IPS Less than 1% at 15 IPS Less than 1.5% at 7.5 IPS Less than 2% at 3.75 IPS
Rewind Time:	120 seconds for 2400 feet	(Distortion varies with bias setting and tape type)	
Wow Flutter: (DIN 45507 Weighted)	Less than .025% at 30 IPS Less than .04% at 15 IPS Less than .06% at 7.5 IPS Less than .10% at 3.75 IPS		
Signal-To-Noise Ratio:			
(Ref. 510nW/M)		Full Track	2-Track
	30 IPS	71dB	68dB
	15 IPS	68dB	65dB
(Unweighted, 30-18Khz)	7.5 IPS	65dB	62dB
	3.75 IPS	63dB	60dB
	30 IPS	75dB	72dB
	15 IPS	72dB	69dB
(ANSI "A"-Weighted)	7.5 IPS	69dB	66dB
	3.75 IPS	67dB	64dB

Engineered for performance and maintenance-free operation, the LJ-10 is built to exacting specifications by L.J. Scully craftsmen. This model offers unique advantages that have previously been unavailable to the broadcast industry. These features include:

- Closed loop drive offering substantially improved wow and flutter
- Linear actuated pressure rollers for a fast, smooth start
- Ability to gently handle 1 mil tape on 10" and 14" reels
- Built in foil sensing
- Solid state logic control circuitry
- Motion sensing for smooth control of fast and stop operations
- Fault detection for early signaling of a potential malfunction
- Front panel plug-in printed circuit construction for easy alignment and maintenance
- Automatic equalization change with capstan speed selection
- Cue mode for easy loading and service

#### Specifications

Tape Speed:	3¼ — 7½ ips (other speeds upon request)
Head Configuration: (¼ inch)	Monophonic — full or half track Stereophonic — two or quarter track
Reel Size:	Up to 14 inches
Rewind Time:	Approximately 160 seconds for 7200 ft.
Power Requirements:	117 VAC, 50/60 Hz, 350 watts
Transport Controls:	Direction, play, fast, stop, cue, speed selection, power
Frequency Response:	± 2 db 50 Hz to 7.5 KHz at 3¼ ips ± 2 db 50 Hz to 15 KHz at 7½ ips
Signal to Noise Ratio: 30 Hz to 18K Hz bandwidth, Refer- enced to 510 nW/M	Mono full track 68 db Mono half track 65 db Stereo two track 65 db Stereo ¼ track 62 db
Flutter and Wow:	3¼ ips less than .12% RMS-NAB, .17 DIN 7½ ips less than .08% RMS-NAB, .12 DIN
Amplifier Distortion:	Less than .2% THD at operating level Maximum output before clipping + 24 dbm into 600 ohms
Line Output:	Balanced output 600 ohms
Remote Connections:	Direction, play, fast, stop, fault, ready and ground
Size:	19" x 24½" x 9½"
Shipping Weight:	100 lbs.

Front-accessible, solid state transport control/audio printed circuitry

